



(R)

Statistics/Data Analysis

MP - Parallel Edition

14.0

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Single-user 8-core Stata perpetual license:

Serial number: 10699393

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Notes:

1. Unicode is supported; see [help unicode advice](#).
2. More than 2 billion observations are allowed; see [help obs advice](#).
3. Maximum number of variables is set to 5000; see [help set maxvar](#).

```
1 . doedit "C:\Users\Bobby W. Chung\OneDrive\Project E\Project\Occupational License\Archive\oyster_
2 . do "C:\Users\BOBBYW~1.CHU\AppData\Local\Temp\STD01000000.tmp"
3 . set matsize 1500
4 . clear
5 .
6 . use "C:\Users\Bobby W. Chung\Desktop\SIPPdata\wave13-16_FULLL.dta"
7 . keep if swave==13
   (791,221 observations deleted)
8 .
9 . *****Merge with license
10 . merge m:1 lgtkey using "C:\Users\Bobby W. Chung\Desktop\SIPPdata\Module.dta", generate(_license
```

Result	# of obs.	
not matched	1,814	
from master	1,814	(<u>_licensemerge==1</u>)
from using	0	(<u>_licensemerge==2</u>)
matched	302,379	(<u>_licensemerge==3</u>)

```
11 .
12 .
13 . merge m:1 lgtkey using "C:\Users\Bobby W. Chung\Desktop\SIPPdata\Wave2_topical", generate(edume
```

Result	# of obs.	
not matched	83,448	
from master	48,966	(<u>edumerge==1</u>)
from using	34,482	(<u>edumerge==2</u>)
matched	255,227	(<u>edumerge==3</u>)

```
14 . drop if edumerge==2
    (34,482 observations deleted)

15 . gen math=0

16 . replace math=1 if ecourse1==1
    (102,291 real changes made)

17 . gen sci=0

18 . replace sci=1 if ecourse2==1
    (99,592 real changes made)

19 . gen eng=0

20 . replace eng=1 if ecourse3==1
    (148,508 real changes made)

21 . *****Data Management*****
22 . drop if tage<18
    (71,482 observations deleted)

23 . drop if tage >64
    (49,165 observations deleted)

24 .
25 . * Work hour<1
26 . drop if ejbhrs1<1
    (77,858 observations deleted)

27 .
28 .
29 . *delege useless license data
30 . drop if iprocert <1
    (9,461 observations deleted)

31 .
32 . *Delete imptued license
33 . drop if iwhopcer <0
    (366 observations deleted)

34 .
35 . * Define demographic
36 . generate female =1

37 . replace female =0 if esex==1
    (47,801 real changes made)

38 . drop if female==1
    (48,060 observations deleted)
```

```
39 .
40 . generate black=0

41 . replace black=1 if erace==2
    (4,325 real changes made)

42 .
43 . generate hispanic=0

44 . replace hispanic=1 if eorigin==1 & black==0
    (6,187 real changes made)

45 .
46 . *Create hourly wage
47 . generate long wage = (tpmsum1)/4/ejbhrs1

48 . drop if wage>100
    (685 observations deleted)

49 . drop if wage<5
    (4,047 observations deleted)

50 . gen lwage =log(wage)

51 . generate union=1

52 . replace union=0 if eunion1==2
    (37,332 real changes made)

53 .
54 . *Delete imputed union data
55 . drop if eunion1 <0
    (4 observations deleted)

56 .
57 . *Drop race other than white and black
58 . gen other=0

59 . replace other=1 if erace>2
    (3,246 real changes made)

60 .
61 . ***Merging with Module data of license (skip)
62 . ***Create license dummy (skip)
63 .
64 . *Delete imputed licensure source
65 . drop if iwhopcer <0
    (0 observations deleted)

66 .
67 .
```

```
68 . *Create gov't summy
69 . generate govt=0

70 . replace govt=1 if inrange(eclwrk1, 3,5)
    (6,683 real changes made)

71 .
72 . *service worker?
73 . gen service=0

74 . replace service=1 if inrange(ejbind1,6870,9290)
    (17,093 real changes made)

75 .
76 . *Create education dummy
77 . generate hs =0

78 . replace hs=1 if eeducate==39
    (11,397 real changes made)

79 . generate somecollege =0

80 . replace somecollege=1 if inrange(eeducate,40,43)
    (14,748 real changes made)

81 . generate college=0

82 . replace college=1 if eeducate ==44
    (9,228 real changes made)

83 . generate postgrad=0

84 . replace postgrad=1 if eeducate >44
    (4,531 real changes made)

85 .
86 . *Create self-employment and big company dummy
87 . generate self_emp=1

88 . replace self_emp=0 if ebuscntr<0
    (41,861 real changes made)

89 .
90 . gen age2=tage*tage

91 . rename tage age

92 .
93 .
94 . *Ensure that the license variable does not contain certified
95 . replace license=0 if cert==1
    (3,847 real changes made)
```

```

96 .
97 . *Ensure the license indicator include only license being required by job
98 . gen licensenorequire=0

99 . replace licensenorequire=1 if irjpcert!=1 & license==1
(1,298 real changes made)

100 . replace license=0 if irjpcert>1
(1,637 real changes made)

101 .
102 .
103 . ***** Redefine licensing by 50/50 rule
104 . egen licensecheck=mean(license), by(tfipsst tjboccl)

105 . replace license=0 if licensecheck<0.5
(1,845 real changes made)

106 . replace license=1 if licensecheck>=0.5
(1,245 real changes made)

107 .
108 .
109 .             *Merge with ban data
110 .             gen state_occ=string(tfipsst)+"-"+string(tjboccl) if license==1
(38,163 missing values generated)

111 .
112 .             merge m:1 state_occ using "C:\Users\Bobby W. Chung\OneDrive\Project E\Project\Occupatio
> ate(_felonymerge)


```

Result	# of obs.	
not matched	43,249	
from master	41,014	(_felonymerge==1)
from using	2,235	(_felonymerge==2)
matched	2,051	(_felonymerge==3)

```

113 .
114 .             drop if _felonymerge==2
(2,235 observations deleted)

115 .             replace permaban=0 if _felonymerge==1
(41,014 real changes made)

116 .             replace felony=0 if _felonymerge==1
(41,014 real changes made)

117 .

```

```
118 .         rename permaban Ban

119 .
120 .         ***"permaban" only contains permanent ban
121 .         ***"felony" contains both temporary and permanent ban
122 .
123 .         keep if apmsum1==0 & inrange(wage,5,100)
          (4,893 observations deleted)

124 .
125 .
126 .         gen person=0

127 .         replace person=1 if iwhypcer==2
          (397 real changes made)

128 .
129 .         ***** Race selection
130 .         drop if other==1
          (2,928 observations deleted)

131 .         drop if hispanic==1 & black==0
          (4,908 observations deleted)

132 .
133 .
134 .         *****
135 .         **** Main Table
136 .         *****
137 .
138 .         local controls  age age2  hs somecollege college postgrad union govt self_em service

139 .
140 .
141 .         gen boxyes=0

142 .         replace boxyes=1 if inlist(tfipsst,6,8,9,11,15,25,27,35)
          (4,716 real changes made)

143 .
144 .         gen BTBban=Ban*boxyes

145 .         replace Ban=0 if BTBban==1
          (246 real changes made)

146 .         gen nonBTBban=Ban

147 .
148 .
149 .         gen con_edu=0
```

```

150 . replace con_edu=1 if icdpcert==1
    (5,178 real changes made)

151 .
152 .
153 . replace license=0 if BTBban==1 | nonBTBban==1
    (1,082 real changes made)

154 .
155 . **** Panel B
156 . quietly regress lwage black BTBban nonBTBban license cert licensenorequire `controls' i.tfips
    > wpfinwgt], vce(cluster tfipsst)

157 . *Ordinary
158 .       psacalc delta license, beta(0) rmax(0.61)

```

—— Bound Estimate ——		
delta	2.28541	
—— Inputs from Regressions ——		
	Coeff.	R-Squared
Uncontrolled	0.12658	0.004
Controlled	0.03060	0.560
—— Other Inputs ——		
R_max	0.610	
Beta	0.000000	
Unr. Controls		

```

159 .       psacalc delta license, beta(0) rmax(0.72)

```

—— Bound Estimate ——		
delta	0.71209	
—— Inputs from Regressions ——		
	Coeff.	R-Squared
Uncontrolled	0.12658	0.004
Controlled	0.03060	0.560
—— Other Inputs ——		
R_max	0.720	
Beta	0.000000	
Unr. Controls		

160 . psacalc delta license, beta(0) rmax(1)

—— Bound Estimate ——		
delta	0.25872	

—— Inputs from Regressions ——		
	Coeff.	R-Squared
Uncontrolled	0.12658	0.004
Controlled	0.03060	0.560

—— Other Inputs ——	
R_max	1.000
Beta	0.000000
Unr. Controls	

161 .
162 .
163 . *License with ban in non-BTB states
164 . psacalc delta nonBTBban, beta(0) rmax(0.61)

—— Bound Estimate ——		
delta	3.52939	

—— Inputs from Regressions ——		
	Coeff.	R-Squared
Uncontrolled	0.24951	0.005
Controlled	0.08622	0.560

—— Other Inputs ——	
R_max	0.610
Beta	0.000000
Unr. Controls	

165 . psacalc delta nonBTBban, beta(0) rmax(0.72)

—— Bound Estimate ——		
delta	1.10330	

—— Inputs from Regressions ——		
	Coeff.	R-Squared
Uncontrolled	0.24951	0.005
Controlled	0.08622	0.560

—— Other Inputs ——

R_max	0.720
Beta	0.000000
Unr. Controls	

166 . psacalc delta nonBTBban, beta(0) rmax(1)

—— Bound Estimate ——

delta	0.40124
-------	----------------

—— Inputs from Regressions ——

	Coeff.	R-Squared
Uncontrolled	0.24951	0.005
Controlled	0.08622	0.560

—— Other Inputs ——

R_max	1.000
Beta	0.000000
Unr. Controls	

167 .
168 . *License with ban in BTB states
169 . psacalc delta BTBban, beta(0) rmax(0.61)

—— Bound Estimate ——

delta	6.48389
-------	----------------

—— Inputs from Regressions ——

	Coeff.	R-Squared
Uncontrolled	0.28069	0.002
Controlled	0.13326	0.560

—— Other Inputs ——

R_max	0.610
Beta	0.000000
Unr. Controls	

170 . psacalc delta BTBban, beta(0) rmax(0.72)

—— Bound Estimate ——		
delta	2.02469	

—— Inputs from Regressions ——		
	Coeff.	R-Squared
Uncontrolled	0.28069	0.002
Controlled	0.13326	0.560

—— Other Inputs ——	
R_max	0.720
Beta	0.000000
Unr. Controls	

171 . psacalc delta BTBban, beta(0) rmax(1)

—— Bound Estimate ——		
delta	0.73609	

—— Inputs from Regressions ——		
	Coeff.	R-Squared
Uncontrolled	0.28069	0.002
Controlled	0.13326	0.560

—— Other Inputs ——	
R_max	1.000
Beta	0.000000
Unr. Controls	

172 .

173 .

174 .

end of do-file

175 .